

WHAT IS CLAIMED IS:

1. An apparatus [to be connected] to a serial bus of)
IEEE-1394 standard, said apparatus comprising:

a 1394 signal input/output port section having two or
5 more input/output ports to be connected (to another
apparatuses) functioning [as parent and child nodes;] node C/
a non-node configuration control section which
controls the configuration in such a manner that said
apparatus is not recognized as a node;

10 a normal configuration control section which controls
the configuration in such a manner that said apparatus is
recognized as a node;

a mode switching section which enables input/output
of said non-node configuration control section or said
15 normal configuration control section with respect to said
1394 signal input/output port section;

mode switching unit which controls switching of said
mode switching section; and

20 a PHY configuration packet output section which
generates a PHY configuration packet for resetting an
apparatus of another node as a route node so as to output
the PHY configuration packet to said normal configuration

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control section. → To say whether the next (Address?)
node will be hidden or normal

25 2. The apparatus according to claim 1, wherein when one

of the two input/output ports of said 1394 signal
input/output port section is connected to an another
apparatus functioning as the parent node and the other port
is connected to an another apparatus functioning as the child
5 node and said apparatus does not become a route node in a
tree identification phase, said non-node configuration
control section neither obtains a (self phisical_ID) nor
transmits a self_ID packet in a self-identification phase
but transmits an ident_done signal received from the child
10 node directly to the parent node.

3. The apparatus according to claim 1, wherein when one
of the two input/output ports of said 1394 signal
input/output port section is connected to an another
15 apparatus functioning as the parent node and the other port
is connected to an another apparatus functioning as the child
node and said apparatus becomes a route node in the tree
identification phase, said non-node configuration control
section passes the process of the self-identification phase
20 to said normal configuration control section.

4. The apparatus according to claim 3, wherein when said
normal configuration control section takes over the process
of the self-identification phase from said non-node
25 configuration control section, said normal configuration

control section obtains a self physical_ID and transmits a self_ID packet and permits said PHY configuration packet output section to output the PHY configuration packet.

5 5. The apparatus according to claim 1, being a bus analyzer for analyzing operations on the serial bus of the IEEE-1394 standard.

6. A configuration method comprising the steps of:

10 specifying a non-node mode for [controlling configuration] so that an apparatus [is not recognized as a node or a normal mode for controlling configuration] so that the apparatus is recognized as a node;

15 [initializing a serial bus of an IEEE-1394 standard and recognizing a tree;]

when the non-node mode is specified at the mode specifying step, checking whether the apparatus becomes a route node or not; and

20 when a judgment is made that the apparatus does not become a route node, neither obtaining a self physical_ID nor transmitting a self_ID packet but transmitting an ident_done signal received from a child node directly to a parent node.

25 7. The configuration method according to claim 6, wherein

when a judgment is made that the apparatus becomes a route node, the configuration method further comprising the steps of:

obtaining a self phisical_ID and transmitting a
5 self_ID packet; and

generating a PHY configuration packet for resetting
an apparatus of another node as a route node so as to output
the PHY configuration packet *after the self-identification.*

10 8. The configuration method according to claim 6, wherein
when a normal mode is specified, the configuration method
further comprising the steps of:

initializing the serial bus of the IEEE-1394 standard;
and

15 obtaining a self phisical_ID and transmitting a
self_ID packet after the tree identification are carried
out.